

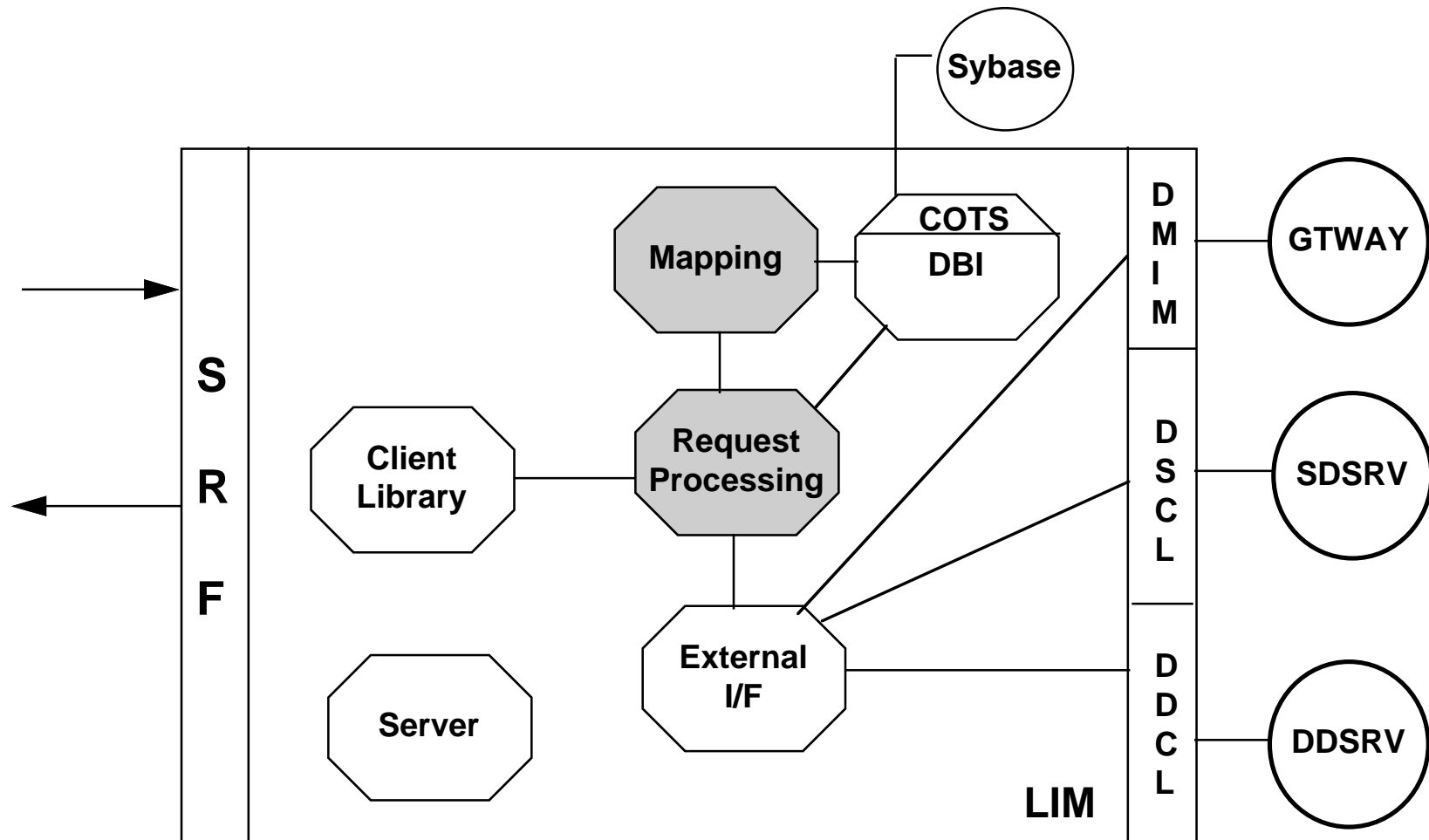
Request Processing and Mapper Design Review

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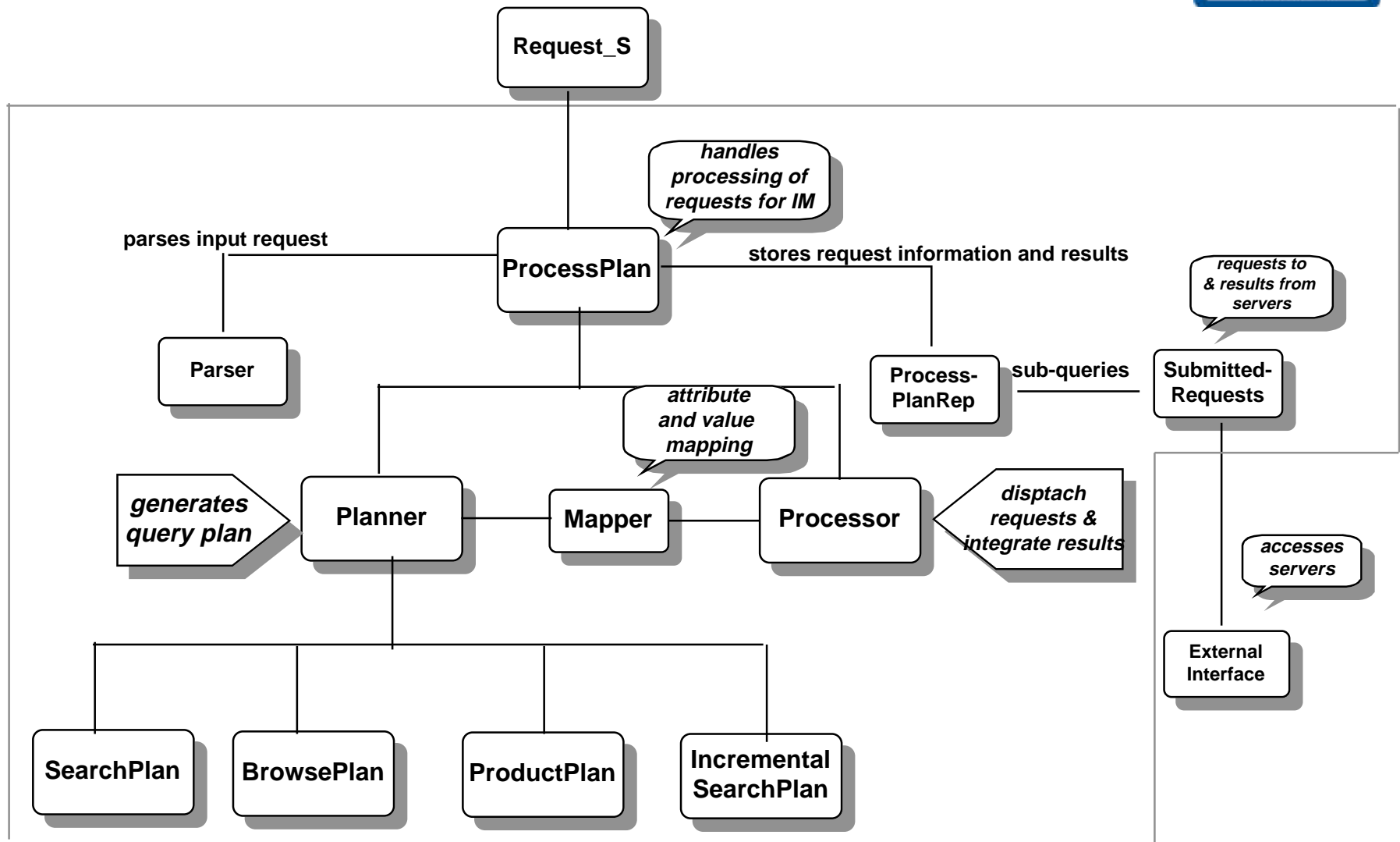
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CSCI Software Architecture



Request Processing & Mapper Overview



Object Model



The following object models will be reviewed:

Diagram Name

ProcessPlan (ReqProc1)

Planner (ReqProc2)

Mapper



Dynamic Model

The following event traces will be reviewed:

Event Trace Name

Diagram Name

LIM Search Request Processing

LIMSearchReq1

LIMSearchReq2

MapperDBIF

LIMSearchReq3



LIM Search Request Processing

Assumptions/ Preconditions

- A session has been established and user access privileges validated.
- The IM has been configured as a LIM.

Functional Description

- ProcessPlan uses Parser to create an internal representation of search request.
- SearchPlan object is created to generate query plan.
- SearchPlan accesses database to identify servers to handle this request.
- V0 Gateway & SDSRV are identified as target servers
- Mapper object is created to map attributes and values from ECS to V0 form.
- The query plan is generated as a list of Submitted Request objects.

LIM Search Request Processing (cont.)



Functional Description (cont.)

- **ProcessPlan creates Processor to dispatch requests to V0Server and SDSRV.**
- **Processor creates V0ExtIF object and submits the request.**
- **Results received from V0ExtIF are mapped back to ECS if possible.**
- **Processor creates DataServerIF object and submits requests - in each case.**
- **Result integration is performed.**